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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,597	03/09/2004	Jin-Boo Son	50755/DBP/Y35	1758
	7590 04/16/200 <sup>.</sup> RKER & HALE, LLP	1	EXAMINER	
PO BOX 7068	·	DHARIA, PRABODH M		
PASADENA, C	CA 91109-7068	2629	ART UNIT	PAPER NUMBER
			2629	<u> </u>
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DÉLIVERY MODE	
3 MO	NTHS	04/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## DOTAGE Action Summary    Texaminer			Application No.	Applicant(s)			
Praidod M. Dharia  2629  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION  **TO PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION  **If NO period for reply is pecified above, the maintens statution preint of its communication.  *If NO period for reply is pecified above, the maintens statution preint of its pecified above, and the statution preint of its pecified above, the maintens statution preint of its pecified above, and the statution is pecified above, and the statution is pecified above, and the statution is pecified above, and the statution and	Office Action Summary		10/796,597	SON ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Exercisor time may be available under the provision of 37 FR1 1/36(i). In or event, however, may a exply be timely filled a specified above, the maintenn shalloon period will apply and will expire SIX (5) MONTHS from the mailing date of this communication. It is a specified above, the maintenn shalloon period will apply and will expire SIX (5) MONTHS from the mailing date of this communication. Feature is reply within the sort ocenhod period for reply a specified above, the maintenn shalloon period will apply and will expire SIX (5) MONTHS from the mailing date of this communication, even if timely filled, may reduce any secret period of the specific above. The maintenn shalloon period will be sent to be a communication of the specific and the sent and period will be sent and period or sent and period will be sent and period by sent and period will be sent and period by sent and period will be sent and period by sent and period w			Examiner	Art Unit			
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extension of time may be available under the provisions of 37 GFR 113(d), in no event, however, may a may be termely tilled after SIX (6) MONTHS from the mailing date of this communication.  Failine to repy when the said or secreted period for right in the communication.  Failine to repy when the said or secreted period for right ill, by failure, cause the application become AbaNROMEN (5) 63 U.S. C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seared patient or secreted period for right.  1) ■ Responsive to communication(s) filed on 99 March 2004.  2a) ■ This action is FINAL.  2b) ■ This action is non-final.  3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ■ Claim(s) is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ■ Claim(s) is/are allowed.  Claim(s) is/are rejected.  7) ■ Claim(s) is/are rejected to.  8) ■ Claim(s) is/are objected to by the Examiner.  4pplication Papers  9) ■ The specification is objected to by the Examiner.  Application Papers  9) ■ The specification is objected to by the Examiner.  Application Papers  9) ■ The above claim(s) is objected to by the Examiner.  Application Papers  9) ■ All by March 2004 (s/are: a) ■ accepted or by ■ objected to by the Examiner.  Application Papers  9) ■ All by March 2004 (s/are: a) ■ accepted or by ■ objected to by the Examiner.  Application from the Internation is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ■ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ■ Copies of the certified copies of the priority		• •					
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Closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are allowed.  7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 09 March 2004 is/are: a) ☒ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) □ Some *c) □ None of:  1. ☒ Certified copies of the priority documents have been received. 2 □ Certified copies of the priority documents have been received in Application No 3 □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Discobers Ustakement(s) (PTO/SB08)	·						
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### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Information Disclosure Statement

- 2. The information disclosure statement (IDS) submitted on 02-08-2005,03-38-2005 and 08-19-2005 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.
- 3. Receipt is acknowledged of papers submitted on 03-09-2004 under a new application, which have been placed of record in the file. Claims 1-62 are pending in this action.

### **Drawings**

4. Figure s 1,2 and 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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## Specification

5. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: (fifth and sixth) voltage level and (first and second) voltage level and (third and fourth) voltage level are not clearly identified in the drawing or no details provided in the specification. The way they are claimed are not clear in drawings or there is no specific detail provided in specification.

# Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Setoguchi et al. (6,608,609 B1).

Regarding Claim 1, Setoguchi et al. teaches a method for driving a plasma display panel (PDP) (Col. 1, Lines 10,11) comprising a plurality of first electrodes and second electrodes (Col. 2, Line 20) formed in parallel (Col. 2, Line 22) on a first substrate (Col. 2, Line 19), and a plurality of third electrodes crossing the first and second electrodes and being formed on a second substrate (Col. 2, Lines 34-38), wherein adjacent said first, second, and third electrodes

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define each of a plurality of discharge cells (Col. 4, Lines 34-44), the method comprising: setting the plurality of discharge cells in a first reset period (Col. 3, Line 64 to Col. 4, Line 2, see figure3); further setting the plurality of discharge cells in a second reset period (figure 8, erase pulse (per applicant's specification see page 5, paragraph 70) Col. 7, Line 35-44); selecting at least one discharge cell from among the plurality of discharge cells in an address period; and sustain-discharging said at least one discharge cell in a sustain period (Col. 12 Lines 26-29).

Regarding Claim 2, Setoguchi et al. teaches applying a discharge erase pulse under a predetermined condition to the plurality of discharge cells, said discharge erase pulse having discharge and erase functions (Col. 7, Lines 35-42).

Regarding Claim 3, Setoguchi et al. teaches a case in which abnormal charges are formed in the first reset period, and the abnormal charges formed in the first reset period are discharged and erased responsive to the discharge erase pulse (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13 Lines 43-51).

Regarding Claim 4, Setoguchi et al. teaches first and second charges respectively formed on the first and second electrodes in the first reset period, and a voltage caused by the first and second charges is sufficient for sustaining in the sustain period discharge cells that are not selected in the address period (Col. 7, Lines 28-54).

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Regarding Claim 5, Setoguchi et al. teaches the second reset period comprises a first period and a second period, and said further setting comprises: applying a first voltage to the first electrode during the first period; and applying a second voltage to the second electrode during the second period (Col. 7, Lines 28-44).

Regarding Claim 6, Setoguchi et al. teaches the first voltage, together with the voltage caused by the first and second charges, is sufficient for generating a discharge between the first and second electrodes (Col. 7, Lines 28-44, Col. 3, Line 64 to Col. 4, Line 5).

Regarding Claim 7, Setoguchi et al. teaches the first voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (Col. 9, Lines 30-33).

Regarding Claim 8, Setoguchi et al. teaches charges accumulate responsive to the discharge in the first period to the first and second electrodes, and the second voltage is used in the second period to erase the charges formed in the first period (Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 9, Setoguchi et al. teaches the second voltage gradually changes from a third voltage to a fourth voltage (see figure 10-13, Col. 8, Lines 4-45).

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Regarding Claim 10, Setoguchi et al. teaches the second voltage, together with a voltage caused by the charges formed in the first period, is sufficient for generating another discharge between the first and second electrodes, and charges accumulated to the first and second electrodes in the second period responsive to said another discharge is less than a predetermined amount of charges (Col. 8, Lines 4-45, Col. 11, Line 54 to Col. 12, Line 8).

Regarding Claim 11, Setoguchi et al. teaches the predetermined amount is within a range that prevents sustaining in the sustain period of the discharge cells that are not selected (Col. 11, Line 54 to Col. 12, Line 14).

Regarding Claim 12, Setoguchi et al. teaches a second voltage is applied to the second electrode while a first voltage is applied to the first electrode in the second reset period (Col. 9, Lines 46-64).

Regarding Claim 13, Setoguchi et al. teaches the first voltage is applied to the first electrode during a predetermined period, a voltage difference between the first and second voltages, together with a voltage caused by the first and second charges, is sufficient for generating a discharge between the first and second electrodes, and charges accumulated to the first and second electrodes in the predetermined period responsive to the discharge is less than a predetermined amount of charges (Col. 8, Lines 4-45, Col. 11, Line 54 to Col. 12, Line 8).

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Regarding Claim 14, Setoguchi et al. teaches the predetermined amount is within a range that prevents sustaining in the sustain period of discharge cells that are not selected (Col. 7, Lines 44-54).

Regarding Claim 15, Setoguchi et al. teaches the first voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (Col. 7, Lines 28-44).

Regarding Claim 16, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage (please see figures 10-13, Col. 8, Lines 4-45).

Regarding Claim 17, Setoguchi et al. teaches additionally setting the plurality of discharge cells at least once more in at least one additional reset period (Col. 8, Lines 36-45).

Regarding Claim 18, Setoguchi et al. teaches each of the second reset period and the at least one additional reset period comprises a first period and a second period, and each of said further setting and said additionally setting comprises: applying a first voltage to the first electrode during the first period; and applying a second voltage to the second electrode during the second period (see figure (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19, Col. 13, Lines 28-34, and Line 66 to Col. 14, Line 5).

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Regarding Claim 19, Setoguchi et al. teaches the first voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 20, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 21, Setoguchi et al. teaches the fourth voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (Col. 13, Lines 9-15).

Regarding Claim 22, Setoguchi et al. teaches the second voltage gradually changes from a fifth voltage to the sixth voltage (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 23, Setoguchi et al. teaches the fifth voltage has a voltage level substantially identical to that applied to the second electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 24, Setoguchi et al. teaches each of the second reset period and the at least one additional reset period comprises a first period and a second period, and each of said

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further setting and said additionally setting comprises at least one of, applying a first voltage to the first electrode during the first period, and applying a second voltage to the second electrode during the second period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19, Col. 13, Lines 28-34, and Line 66 to Col. 14, Line 5).

Regarding Claim 25, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage during the second reset period, and the second voltage gradually changes from a fifth voltage to a sixth voltage during the at least one additional reset period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 26, Setoguchi et al. teaches the sixth voltage has a voltage level substantially identical to that applied to the second electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 27, Setoguchi et al. teaches the fourth voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 28, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage during the second reset period, and the first voltage gradually changes from the fourth voltage to the third voltage during the at least one additional reset period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

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Regarding Claim 29, Setoguchi et al. teaches the third voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 30, Setoguchi et al. teaches the fourth voltage has a voltage level substantially identical to that applied to the first electrode for discharging in the sustain period (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 31, Setoguchi et al. teaches a method for driving a plasma display panel (PDP) (Col. 1, Lines 10,11) comprising a plurality of first electrodes and second electrodes (Col. 2, Line 20) formed in parallel (Col. 2, Line 22) on a first substrate (Col. 2, Line 19), and a plurality of third electrodes crossing the first and second electrodes and being formed on a second substrate (Col. 2, Lines 34-38), wherein adjacent said first, second, and third electrodes define each of a plurality of discharge cells (Col. 4, Lines 34-44), the method comprising: setting the plurality of discharge cells in a first reset period (Col. 3, Line 64 to Col. 4, Line 2, see figure3); further setting the plurality of discharge cells in a second reset period (figure 8, erase pulse (per applicant's specification see page 5, paragraph 70) Col. 7, Line 35-44); selecting at least one discharge cell from among the plurality of discharge cells in an address period; and sustain-discharging said at least one discharge cell in a sustain period. (Col. 12 Lines 26-29); the method comprising: setting the plurality of discharge cells when a predetermined condition is provided in a reset period, said setting including generating a discharge and erasing (Col. 13, Line 51 to Col. 14, Line 7), which comprise: applying to the plurality of discharge cells a

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discharge pulse for generating the discharge between the first and second electrodes under the predetermined condition in the reset period (Col. 12, Lines 15-35); and applying to the plurality of discharge cells an erase pulse for erasing the charges formed on the first and second electrodes responsive to the discharge (Col. 12, Lines 36-43).

Regarding Claim 32, Setoguchi et al. teaches a case in which abnormal charges are formed in the first reset period, and the abnormal charges formed in the first reset period are discharged and erased responsive to the discharge erase pulse (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13, Line 51 to Col. 14, Line 7).

Regarding Claim 33, Setoguchi et al. teaches the abnormal charges comprise first and second charges respectively formed on the first and second electrodes in the reset period, and a voltage caused by the first and second charges is sufficient for sustain-discharging in a sustain period discharge cells that are not selected in an address period (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13, Line 51 to Col. 14, Line 7).

Regarding Claim 34, Setoguchi et al. teaches setting the plurality of discharge cells comprises applying the discharge pulse having a first voltage to the first electrode while the second electrode is maintained at a second voltage, wherein a voltage difference between the first and second voltages, together with the voltage caused by the first and second charges, is

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sufficient to generate a discharge between the first and second electrodes (Col. 8, Lines 4-45, Col. 11, Line 54 to Col. 12, Line 8).

Regarding Claim 35, Setoguchi et al. teaches applying the erase pulse comprises applying to the second electrode the erase pulse that gradually rises from a fourth voltage to a fifth voltage while the first electrode is maintained at a third voltage, and a voltage difference between the fifth and third voltages, together with a voltage caused by the charges formed on the first and second electrodes from the discharge generated through applying the discharge pulse, is sufficient to generate another discharge between the first and second electrodes (Col. 12, Lines 14-67, Col. 13, Line 51 to Col. 14, Line 7 please see figures 10-13).

Regarding Claim 36, Setoguchi et al. teaches applying the erase pulse comprises applying to the second electrode the erase pulse that gradually falls from a fourth voltage to a fifth voltage while the first electrode is maintained at a third voltage, and a voltage difference between the third and fifth voltages, together with a voltage caused by the charges formed on the first and second electrodes from the discharge generated through applying the discharge pulse, is sufficient to generate another discharge between the first and second electrodes (Col. 12, Lines 14-67, Col. 13, Line 51 to Col. 14, Line 7 please see figures 10-13).

Regarding Claim 37, Setoguchi et al. teaches applying the erase pulse comprises applying to the second electrode the erase pulse having a fourth voltage for a predetermined period while the first electrode is maintained at a third voltage, a voltage difference between the fourth and third voltages, together with a voltage caused by the charges formed on the first and second

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electrodes from the discharge generated through applying the discharge pulse, is sufficient to generate another discharge between the first and second electrodes, and charges accumulated to the first and second electrodes in the predetermined period out of the charges formed by discharging between the first and second electrodes is less than a predetermined amount of charges (Col. 7, Line 55 to Col. 8, Line 7, Col. 12, Lines 14-67, Col. 13, Line 51 to Col. 14, Line 7 please see figures 10-13).

Regarding Claim 38, Setoguchi et al. teaches the predetermined amount is within a range that prevents discharging between the first and second electrodes when voltages of levels substantially identical to voltage levels respectively applied to the first and second electrodes are applied to the first and second electrodes in a sustain period (Col. 12, Lines 14-67).

Regarding Claim 39, Setoguchi et al. teaches a method for driving a plasma display panel (PDP) (Col. 1, Lines 10,11) comprising a plurality of first electrodes and second electrodes (Col. 2, Line 20) formed in parallel (Col. 2, Line 22) on a first substrate (Col. 2, Line 19), and a plurality of third electrodes crossing the first and second electrodes and being formed on a second substrate (Col. 2, Lines 34-38), wherein adjacent said first, second, and third electrodes define each of a plurality of discharge cells (Col. 4, Lines 34-44), the method comprising: setting the plurality of discharge cells in a first reset period (Col. 3, Line 64 to Col. 4, Line 2, see figure3); further setting the plurality of discharge cells in a second reset period (figure 8, erase pulse (per applicant's specification see page 5, paragraph 70) Col. 7, Line 35-44); selecting at least one discharge cell from among the plurality of discharge cells in an address period; and

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sustain-discharging said at least one discharge cell in a sustain period. (Col. 12 Lines 26-29); the method comprising: setting the plurality of discharge cells when a predetermined condition is provided in a reset period, said setting including generating a discharge and erasing (Col. 13, Line 51 to Col. 14, Line 7), which comprise: applying to the plurality of discharge cells a discharge pulse for generating the discharge between the first and second electrodes under the predetermined condition in the reset period (Col. 12, Lines 15-35); and applying to the plurality of discharge cells an erase pulse for erasing the charges formed on the first and second electrodes under the predetermined condition (Col. 12, Lines 36-43).

Regarding Claim 40, Setoguchi et al. teaches the predetermined condition comprises a case in which abnormal charges have been formed in the reset period (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13 Line 43 to Col. 14, Line 7).

Regarding Claim 41, Setoguchi et al. teaches the abnormal charges comprise first and second charges respectively formed on the first and second electrodes, and a voltage caused by the first and second electrodes is sufficient for sustain-discharging in a sustain period discharge cells that are not selected in an address period (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13, Line 51 to Col. 14, Line 7).

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Regarding Claim 42, Setoguchi et al. teaches applying the erase pulse comprises applying the erase pulse having a second voltage for a predetermined period to the first electrode while the second electrode is maintained at a first voltage, a voltage difference between the second and first voltages, together with a voltage caused by the first and second charges, is sufficient for generating a discharge between the first and second electrodes, and charges accumulated to the first and second electrodes in the predetermined period out of the charges formed by discharging between the first and second electrodes less than a predetermined amount of charges (Col. 8, Lines 4-45, Col. 11, Line 54 to Col. 12, Line 8).

Regarding Claim 43, Setoguchi et al. teaches the predetermined amount is within a range that prevents discharging between the first and second electrodes when voltages having levels substantially identical to voltage levels respectively applied to the first and second electrodes are applied to the first and second electrodes in a sustain period (Col. 12, Lines 14-67).

Regarding Claim 44, Setoguchi et al. teaches wherein the erase pulse that gradually changes from a second voltage to a third voltage is applied to the first electrode while the second electrode is maintained at a first voltage (Col. 7, Line 55 to Col. 8, Line 67, see figures 10-13).

Regarding Claim 45, Setoguchi et al. teaches the voltage difference between the third and first voltages, together with a voltage caused by the first and second charges, is sufficient to generate a discharge between the first and second electrodes (see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67).

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Regarding Claim 46. Setoguchi et al. teaches a method for driving a plasma display panel (PDP) (Col. 1, Lines 10,11) comprising a plurality of first electrodes and second electrodes (Col. 2, Line 20) formed in parallel (Col. 2, Line 22) on a first substrate (Col. 2, Line 19), and a plurality of third electrodes crossing the first and second electrodes and being formed on a second substrate (Col. 2, Lines 34-38), wherein adjacent said first, second, and third electrodes define each of a plurality of discharge cells (Col. 4, Lines 34-44), the method comprising: setting the plurality of discharge cells in a first reset period (Col. 3, Line 64 to Col. 4, Line 2, see figure 3): further setting the plurality of discharge cells in a second reset period (figure 8, erase pulse (per applicant's specification see page 5, paragraph 70) Col. 7, Line 35-44); selecting at least one discharge cell from among the plurality of discharge cells in an address period; and sustain-discharging said at least one discharge cell in a sustain period; (Col. 12 Lines 26-29) wherein the driving circuit applies a first voltage to the first electrode and a second voltage to the second electrode between reset and address periods, and abnormal charges from among the charges formed in the reset period are erased by the first and second voltages (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13 Line 43 to Col. 14, Line 7).

Regarding Claim 47, Setoguchi et al. teaches the abnormal charges comprise first and second charges respectively formed on the first and second electrodes, wherein the first and second charges are sufficient to generate a discharge in a sustain period when the discharge cell

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is not selected in the address period (Col. 12, Lines 29-43 erases what ever charge left over from priming (reset) pulse is erased by erase pulse, also see Col. 13 Line 43 to Col. 14, Line 7).

Regarding Claim 48, Setoguchi et al. teaches the driving circuit applies the first voltage to the first electrode during a first period, and the second voltage to the second electrode during a second period, and when the first and second charges are formed during the reset period, discharging occurs between the first and second electrodes responsive to the first voltage during the first period, and charges formed by discharging in the first period are erased responsive to the second voltage during the second period (please see figures 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, Lines 14-67).

Regarding Claim 49, Setoguchi et al. teaches during the first period, the driving circuit applies the first voltage to the first electrode while maintaining the second electrode at a third voltage, and a voltage difference between the first and second voltages, together with a voltage caused by the first and second charges, is sufficient to generate a discharge between the first and second electrodes (Col. 12, Lines 14-67, please see figures 10-13, Col. 7, Line 55 to Col. 8, Line 67).

Regarding Claim 50, Setoguchi et al. teaches during the second period, the driving circuit applies the second voltage to the second electrode while maintaining the first electrode at a fourth voltage, the second voltage gradually changes from a fifth voltage to a sixth voltage, and a voltage difference between the sixth and fourth voltages, together with a voltage caused by the

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charges formed through discharging between the first and second electrodes, is sufficient to generate another discharge between the first and second electrodes (please see figures 10-13, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 51, Setoguchi et al. teaches during the second period, the driving circuit applies the second voltage to the second electrode while maintaining the first electrode at a fourth voltage, a voltage difference between the second and fourth voltages, together with a voltage caused by the charges formed through discharging between the first and second electrodes, is sufficient to generate another discharge between the first and second electrodes, and charges accumulated to the first and second electrodes in the second period of the charges formed by discharging said another discharge is less than a predetermined amount of charges (Col. 7, Line 55- to Col. 8, Line 67, Col. 12, Lines 14-67, please see figure 10-13).

Regarding Claim 52, Setoguchi et al. teaches the predetermined amount is within a range that prevents discharging between the first and second electrodes when voltages of levels substantially identical to voltage levels respectively applied to the first and second electrodes are applied to the first and second electrodes in a sustain period (Col. 12, Lines 14-67).

Regarding Claim 53, Setoguchi et al. teaches the driving circuit applies the second voltage to the second electrode, and the first voltage to the first electrode, and the first and second charges are erased responsive to the first and second voltages (Col. 12, Lines 14-67).

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for a predetermined period, a voltage difference between the first and second voltages, together

Regarding Claim 54, Setoguchi et al. teaches the driving circuit applies the first voltage

with a voltage caused by the first and second charges, is sufficient to generate a discharge

between the first and second electrodes, and charges accumulated to the first and second

electrodes in the predetermined period out of the charges formed by discharging between the first

and second electrodes is less than a predetermined amount of charges (Col. 7, Line 55- to Col. 8,

Line 67, Col. 12, Lines 14-67, please see figure 10-13).

Regarding Claim 55, Setoguchi et al. teaches the predetermined amount is within a range

that prevents discharging between the first and second electrodes when voltages of levels

substantially identical to voltage levels respectively applied to the first and second electrodes are

applied to the first and second electrodes in a sustain period (please see figure 10-13, Col. 12,

Lines 14-67, Col. 8, Lines 4-45, Col. 9, Line 46 to Col. 10, Line 19).

Regarding Claim 56, Setoguchi et al. teaches the second voltage gradually changes from

a third voltage to a fourth voltage, and a voltage difference between the fourth and first voltages,

together with a voltage caused by the first and second charges is sufficient for generating a

discharge between the first and second electrodes (Col. 13, Line 28 to Col. 14, Line 11 Col. 12,

Lines 14-67).

Regarding Claim 57, Setoguchi et al. teaches the driving circuit applies the first voltage

to the first electrode and the second voltage to the second electrode at least once more between

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the reset and address periods (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, Lines 12-67).

Regarding Claim 58, Setoguchi et al. teaches at least one of the first and second voltages gradually changes from a third voltage to a fourth voltage (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, line 14 to Col. 13, Line 15).

Regarding Claim 59, Setoguchi et al. teaches the second voltage gradually changes from a third voltage to a fourth voltage during a first application of the first and second voltages, and the first voltage gradually changes from a fifth voltage to a sixth voltage during a second application of the first and second voltages (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, line 14 to Col. 13, Line 15).

Regarding Claim 60, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage during a first application of the first and second voltages, and the first voltage gradually changes from the fourth voltage to the third voltage during a second application of the first and second voltages (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, line 14 to Col. 13, Line 15).

Regarding Claim 61, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage during a first period, and the second voltage gradually changes from a fifth voltage to a sixth voltage during a second period, wherein the first and second

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periods are between the reset and address periods (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, line 14 to Col. 13, Line 15).

Regarding Claim 62, Setoguchi et al. teaches the first voltage gradually changes from a third voltage to a fourth voltage during a first period, and the first voltage gradually changes from the fourth voltage to the third voltage during a second period, wherein the first and second periods are between the reset and address periods (please see figure 10-13, Col. 7, Line 55 to Col. 8, Line 67, Col. 12, line 14 to Col. 13, Line 15, Col. 6, Lines 32-64).

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nagano; Shinichiro (US 6,856,305) Plasma display panel and plasma display device.

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M. Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.
- 10. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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April 04, 2007